

004277-113700

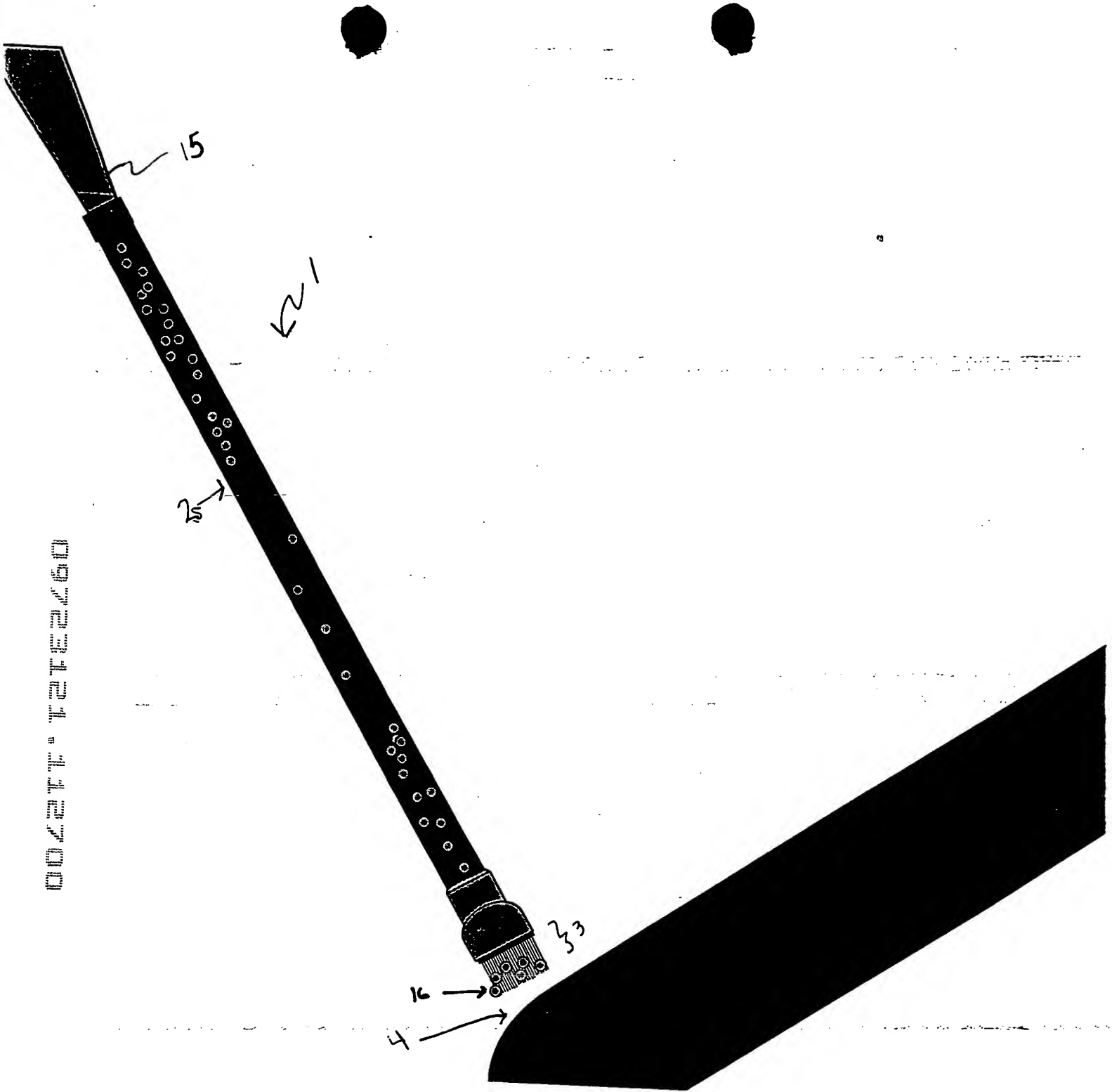


FIG. 1A

00223121.412700

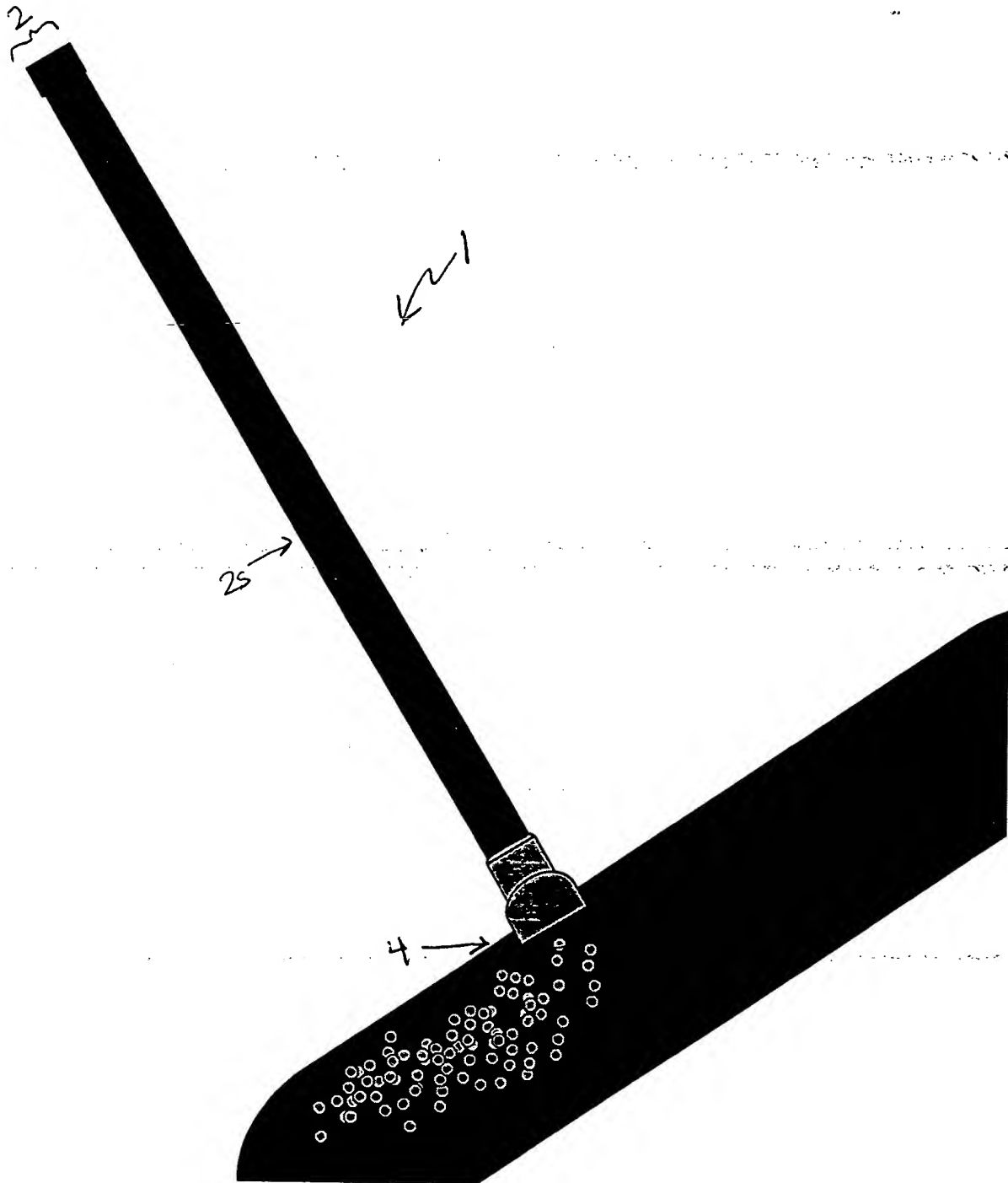


FIG. 1B

# GeneBrush

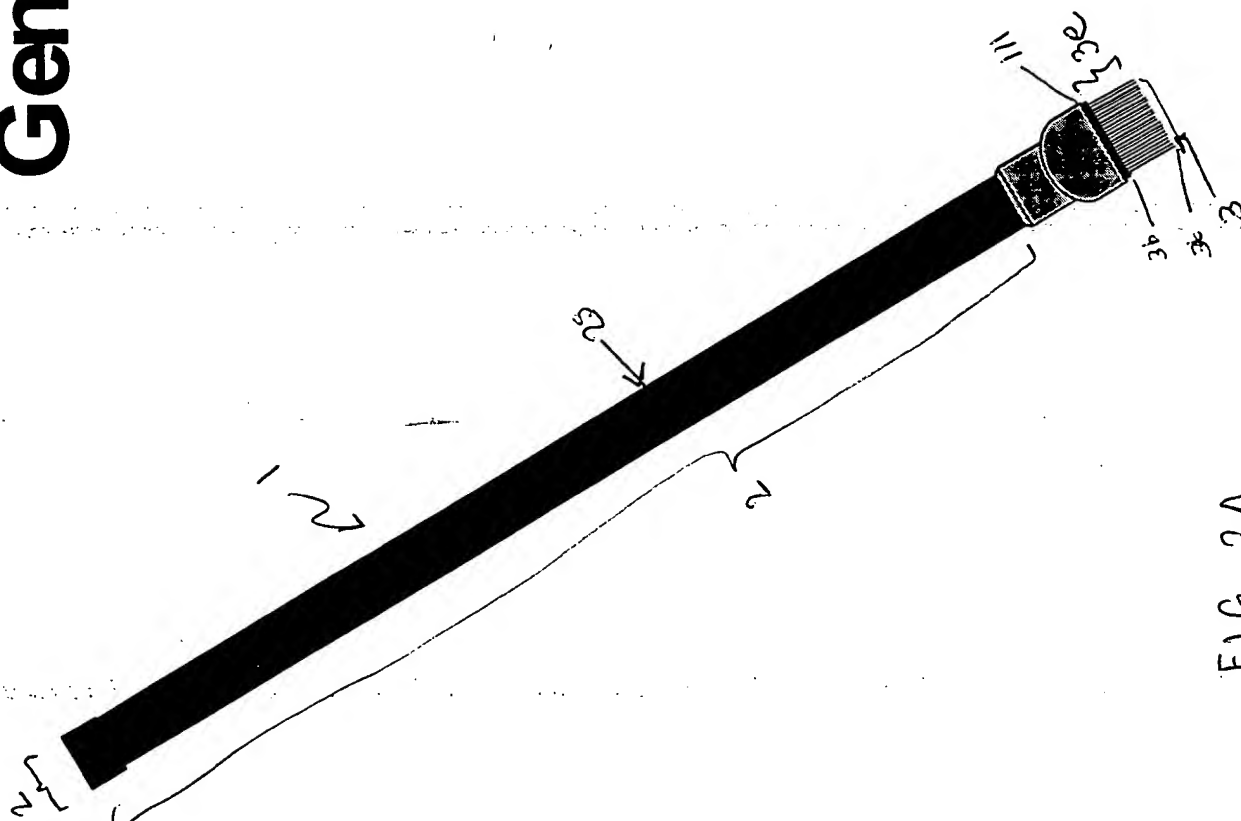


FIG. 2A

# GeneBrush

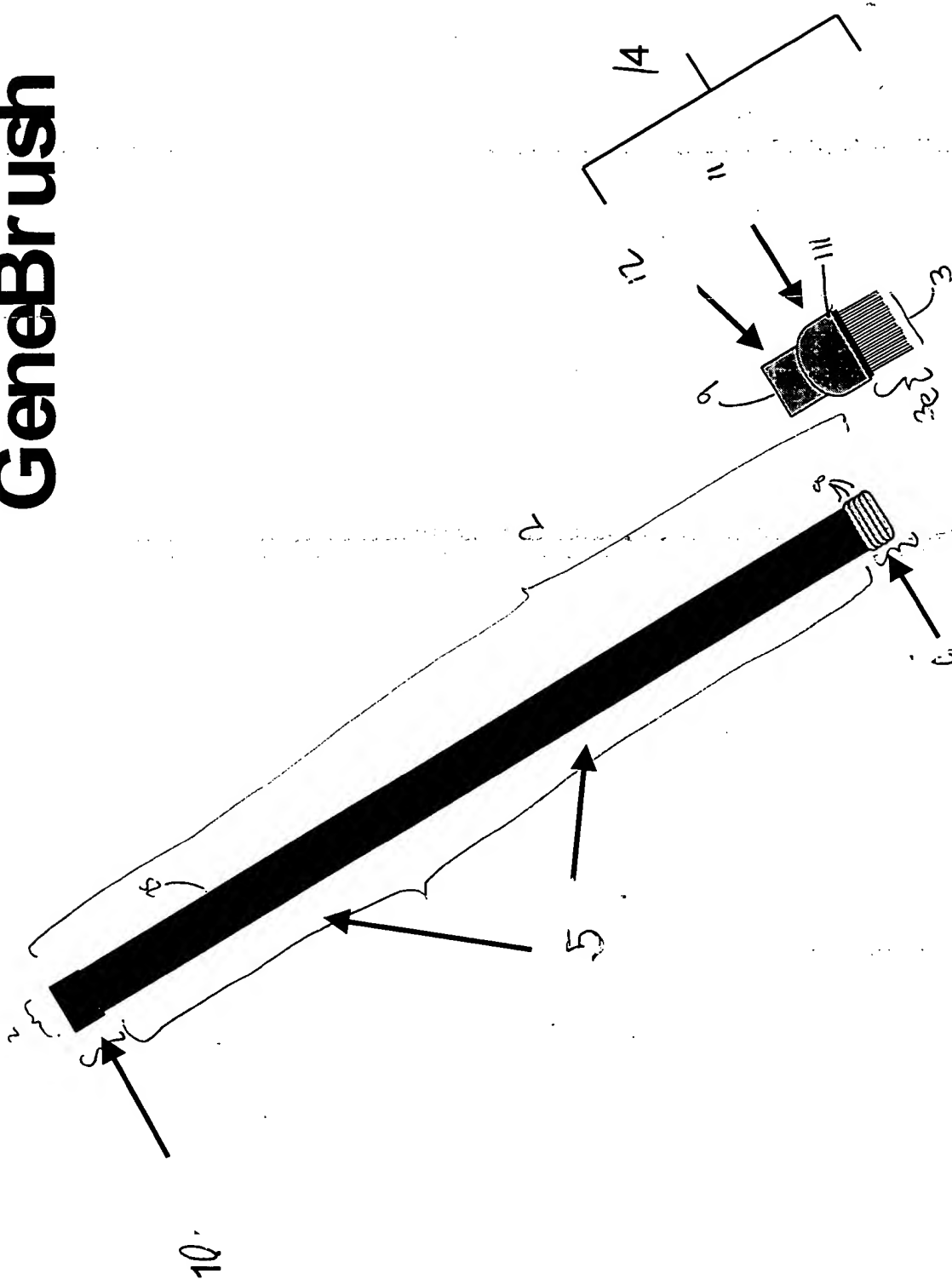


FIG. 2B

# GeneBrush

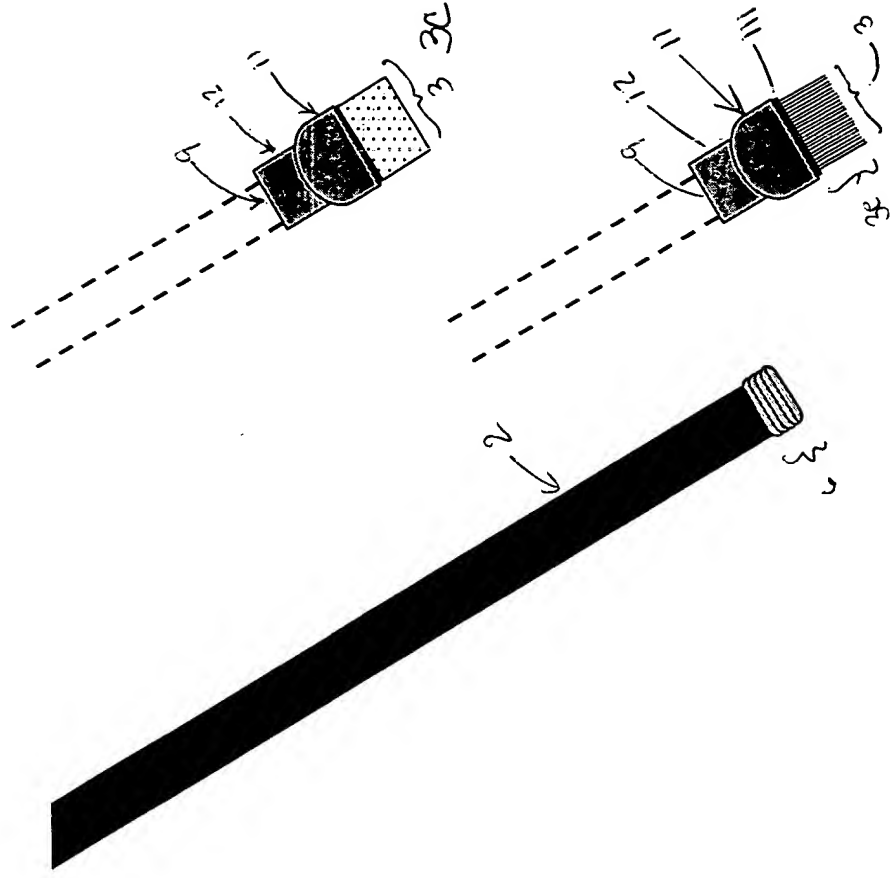


FIG. 3A

3B

# GeneBrush

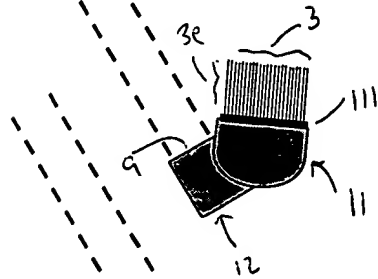


FIG.  
3D

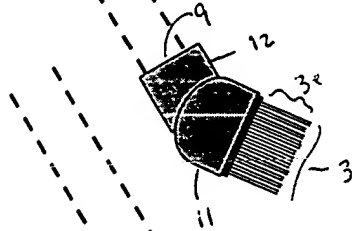


FIG.  
3E

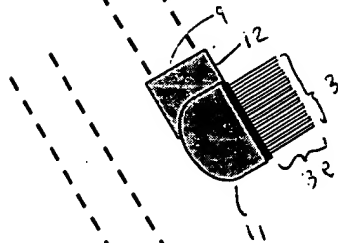


FIG.  
3F

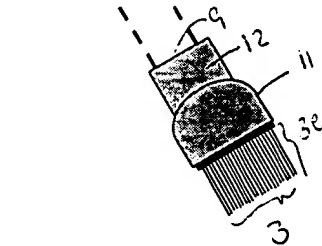


FIG.  
3G

09723121.112700

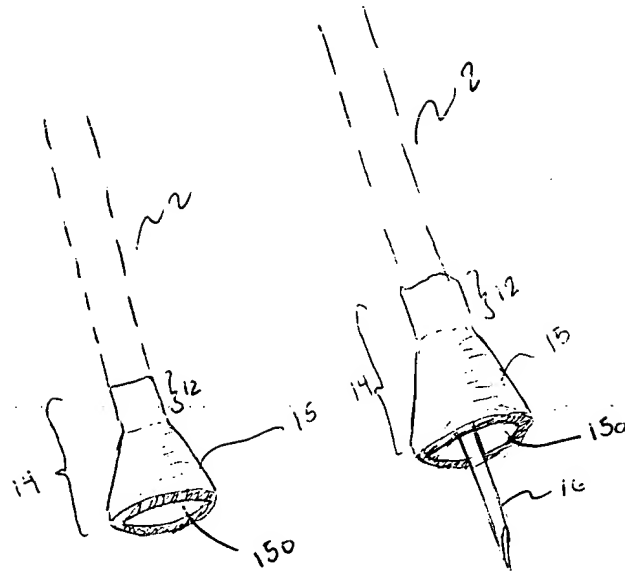
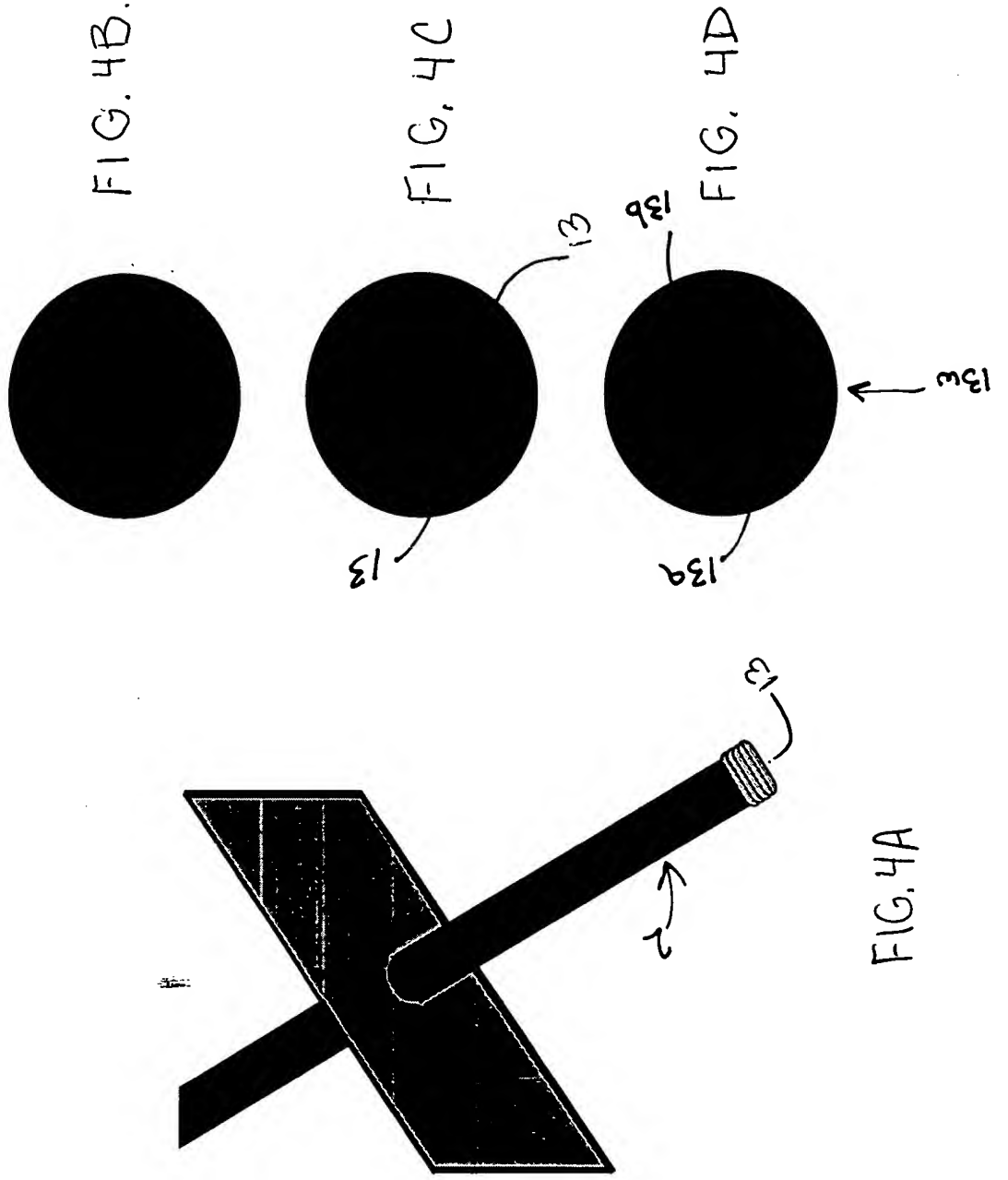


FIG. 3H

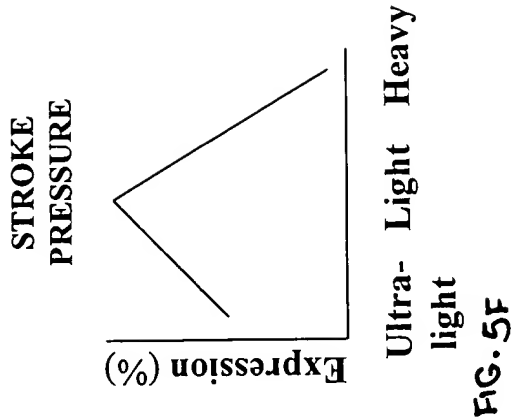
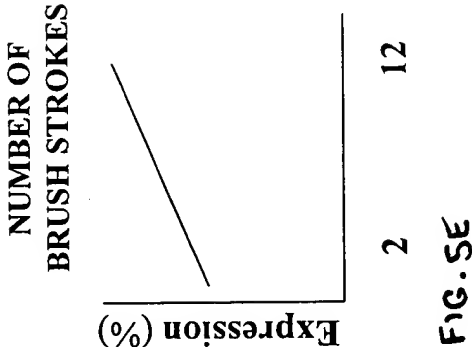
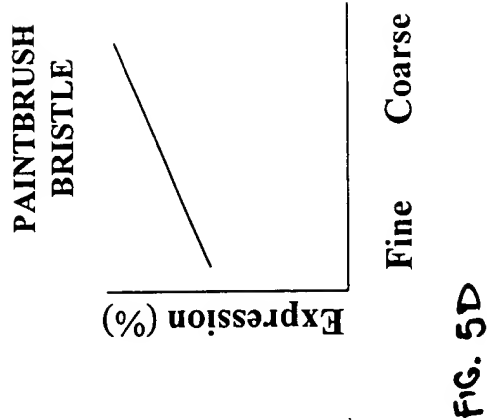
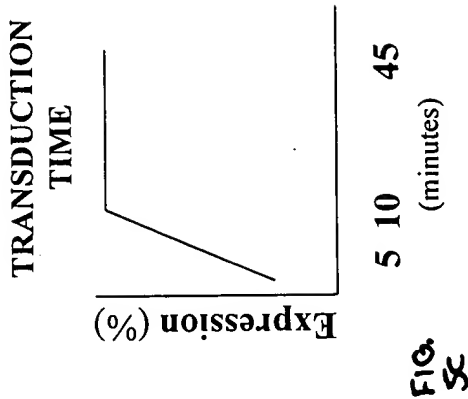
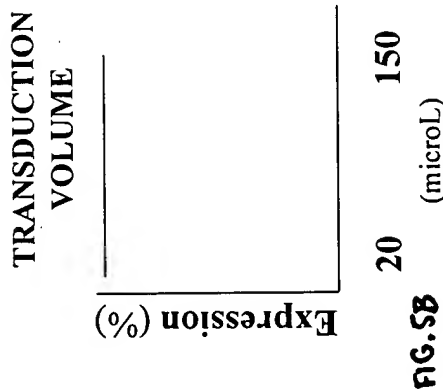
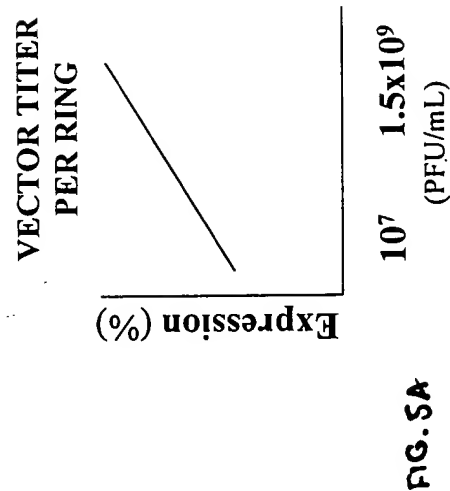
FIG. 3I

# GeneBrush





# DEMONSTRATION OF UTILITY



# Effects of Brush Method on Expression of Recombinant $\beta$ -Galactosidase in Canine Middle Cerebral Artery

Negative control; brushed

FIGURE 6A

AdLacZ; immersion method

FIGURE 6B

AdLacZ+6 mM  $\text{CaP}_i$ ; immersion

FIGURE 6C

AdLacZ+FG; brush method

FIGURE 6D

AdenOS (virus control); brushed

FIGURE 6E

*Note the tremendous increase in blue staining when lacZ is brushed into the vessel wall*

# Effect of Adventitial Brushing With and Without Fibrin Glue on Expression of Recombinant $\beta$ -Galactosidase in Canine Carotid Artery

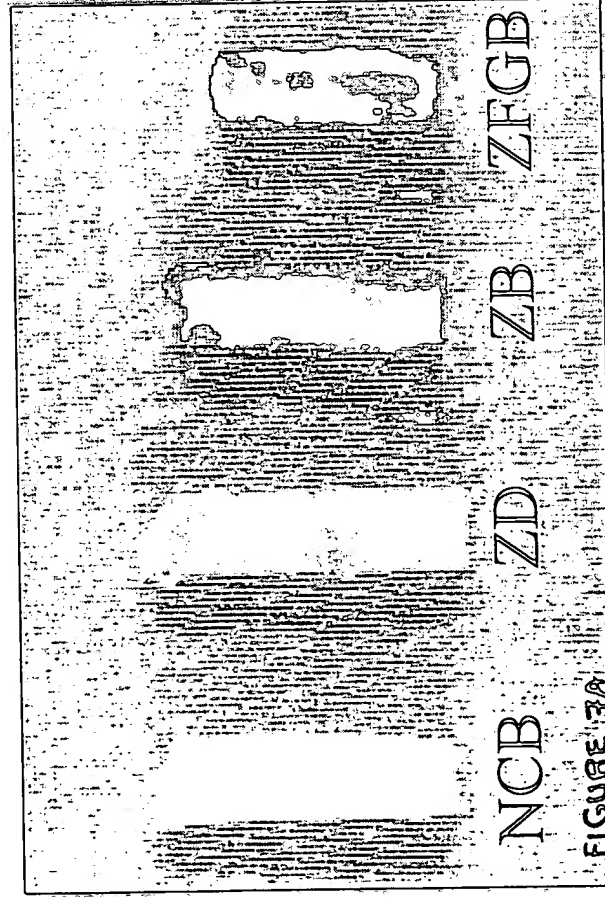


FIGURE 7A

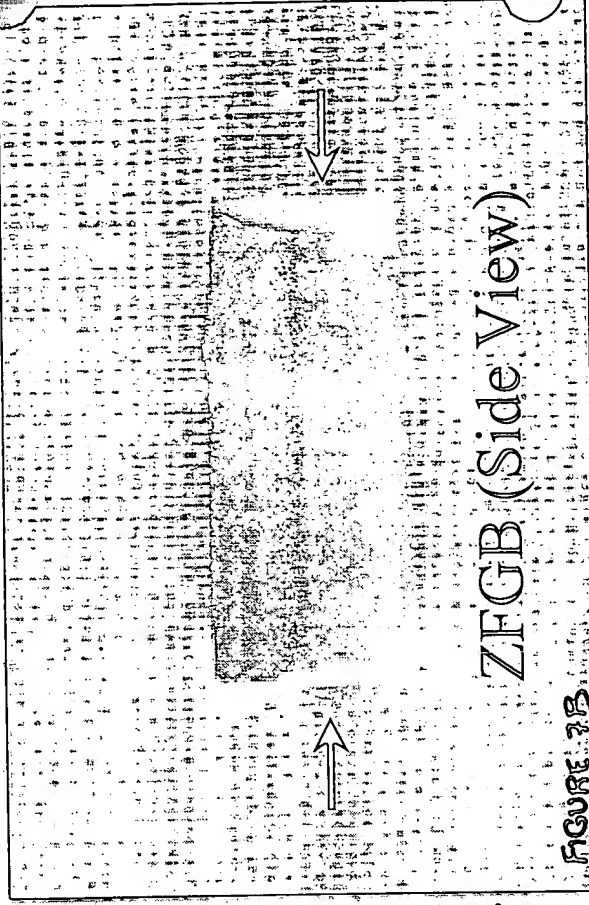


FIGURE 7B

NCB=negative control brushed; ZD=LacZ drops/immersion method;  
ZB=LacZ brushed without FG; ZFCB=LacZ brushed with FG present; titer=10<sup>9</sup> PFU/ring

*Note the tremendous increase in staining seen after brushing LacZ into artery wall;  
The presence of fibrin glue localizes the vector linearly with the brush strokes (arrow heads)*

# LUCIFERASE ASSAY

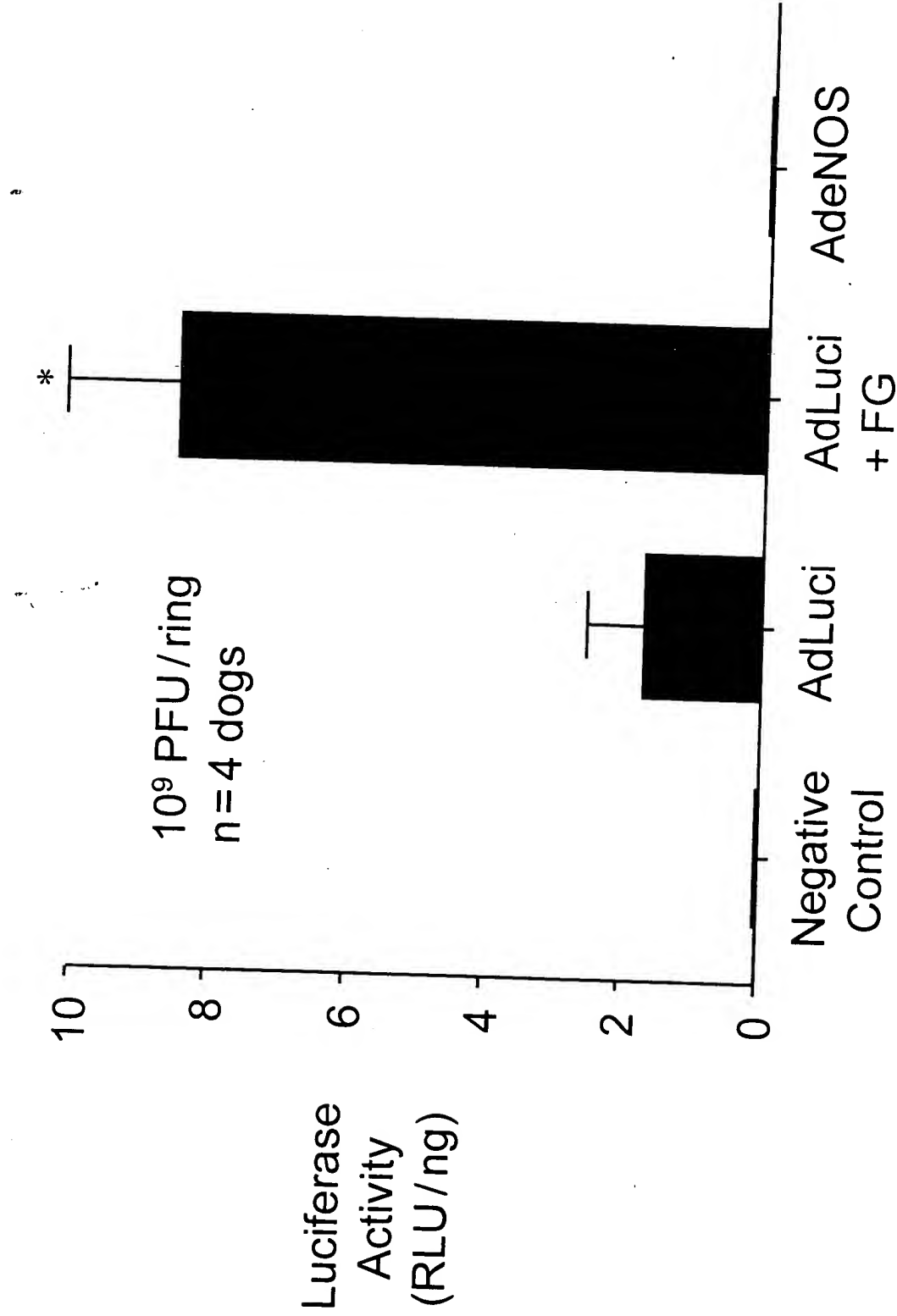


FIGURE 8A



**VECTOR**

**DISEASE**

**PATIENT**

Gene Therapy

**THERAPEUTIC  
BENEFIT**

**DELIVERY**

**TRANSDUCTION**

FIGURE 9

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